

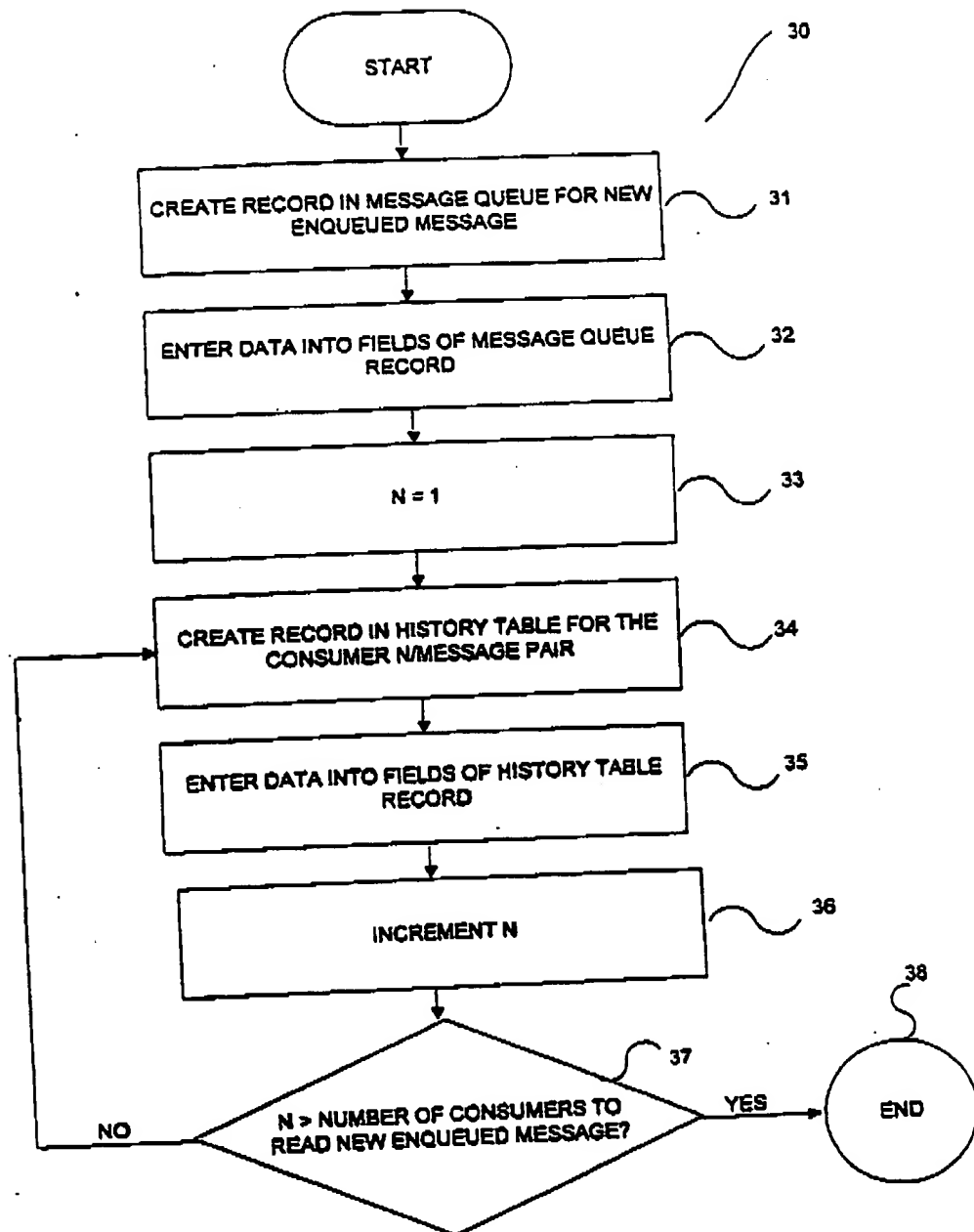
MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
17		18
17		18
17		18

FIG. 1A

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
21			
21			
21			
21			

FIG. 1B

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**FIG. 2**

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40

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES

FIG. 3A-1

42

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG

FIG. 3A-2

46

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
47	MSG_X 48	

44

FIG. 3B-1

51 55 57

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X 54	A	ENQUEUED	
MSG_X 58	B	ENQUEUED	
MSG_X 58	C	ENQUEUED	

52

FIG. 3B-2

44

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
	MSG_X	

FIG. 3C-1

62

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	
MSG_X	B	READ	
MSG_X	C	ENQUEUED	

61

FIG. 3C-2

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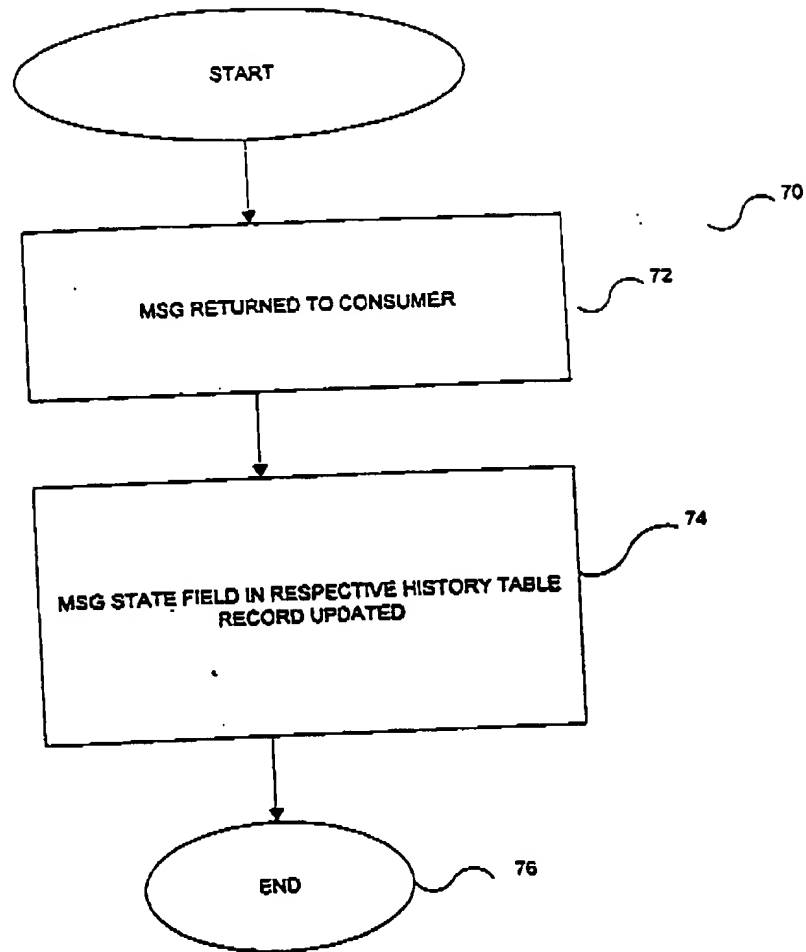


FIG. 4

150

152 MESSAGE ID	153 CONSUMER ID	154 ENQUEUE TIME	155 PRIORITY
156			
156			

**FIG. 5**

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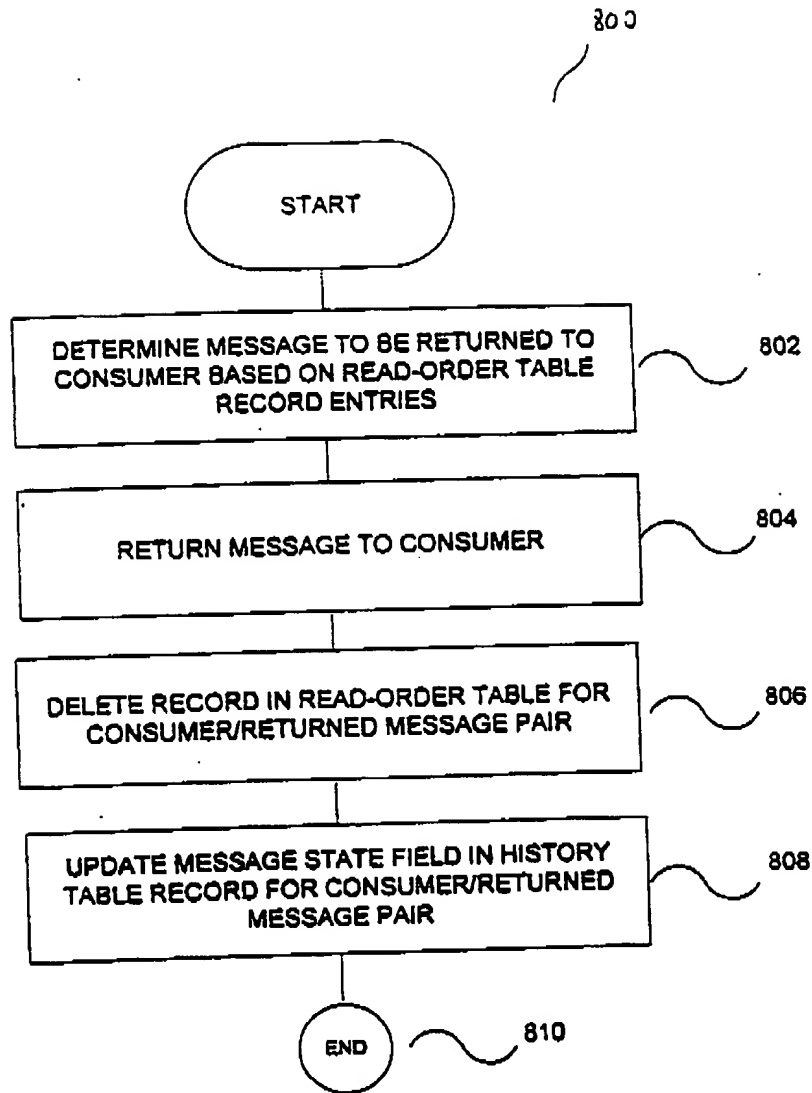


FIG. 6

525

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
530 ~	MSG_X	~
532 ~	MSG_Y	~

FIG. 7A-1

550 557 558 559

MESSAGE ID	CONSUMER ID	ENQUEUE TIME
551 MSG_X	A	8:05
552 MSG_X	B	8:05
553 MSG_Y	A	9:10
554 MSG_Y	B	9:10
555 MSG_Y	C	9:10
556 MSG_Y	D	9:10

FIG. 7A-2

575 592

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
580 MSG_X	A	ENQUEUED	~
581 MSG_X	B	ENQUEUED	~
582 MSG_Y	A	ENQUEUED	~
583 MSG_Y	B	ENQUEUED	~
584 MSG_Y	C	ENQUEUED	~
585 MSG_Y	D	ENQUEUED	~

FIG. 7A-3

525

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
530 ~	MSG_X	~
532 ~	MSG_Y	~

FIG. 7B-1

595

MESSAGE ID	CONSUMER ID	ENQUEUE TIME
MSG_X	A	8:05
MSG_Y	A	9:10
MSG_Y	B	9:10
MSG_Y	C	9:10
MSG_Y	D	9:10

FIG. 7B-2

602 604

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	~
MSG_X	B	READ	~
MSG_Y	A	ENQUEUED	~
MSG_Y	B	ENQUEUED	~
MSG_Y	C	ENQUEUED	~
MSG_Y	D	ENQUEUED	~

FIG. 7B-3

825

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
826	MSG_X	827
827	MSG_Y	828
828	MSG_Z	

FIG. 8A-1

850

MESSAGE ID	CONSUMER ID	ENQUEUE TIME	PRIORITY
853	A	8:05	2
856	B	8:05	2
852	A	8:30	1
854	B	8:30	1
830	A	9:00	1

FIG. 8A-2

848

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
841	A	ENQUEUED	845
842	B	ENQUEUED	
843	A	ENQUEUED	
844	B	ENQUEUED	
845	A	ENQUEUED	

FIG. 8A-3

825

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
826	MSG_X	827
827	MSG_Y	828
828	MSG_Z	

FIG. 8B-1

860

MESSAGE ID	CONSUMER ID	ENQUEUE TIME	PRIORITY
MSG_X	A	8:05	2
MSG_X	B	8:05	2
MSG_Y	B	8:30	1
MSG_Z	A	9:00	1

FIG. 8B-2

880

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	884
MSG_X	B	ENQUEUED	
MSG_Y	A	READ	
MSG_Y	B	ENQUEUED	
MSG_Z	A	ENQUEUED	

882

FIG. 8B-3



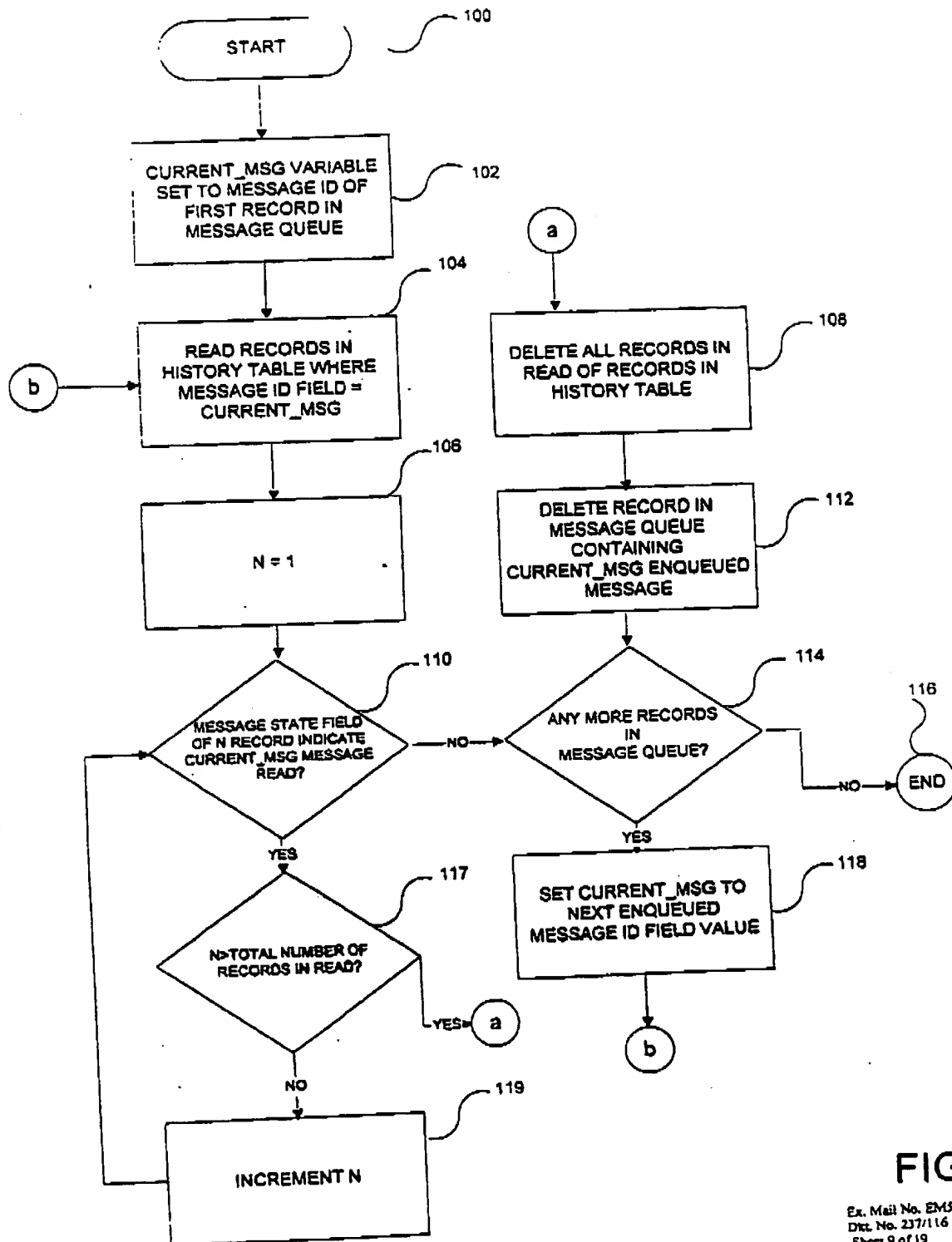
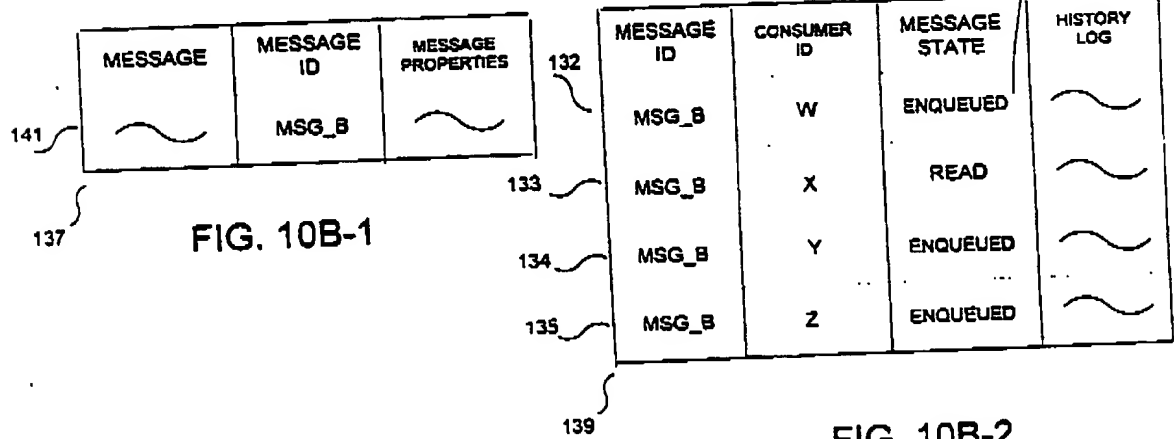
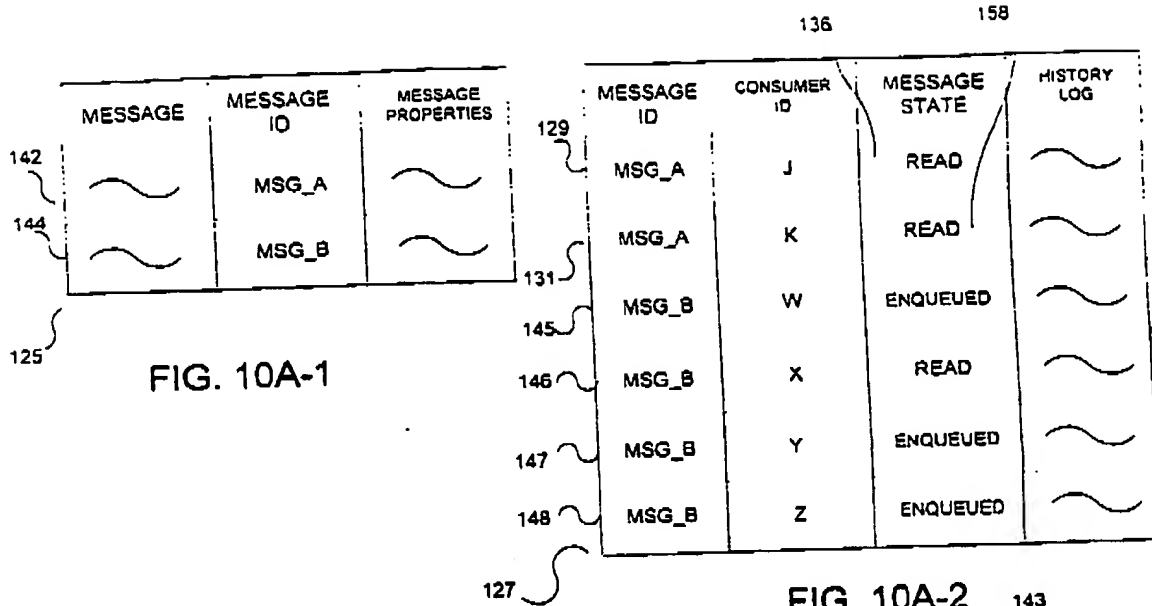


FIG. 9

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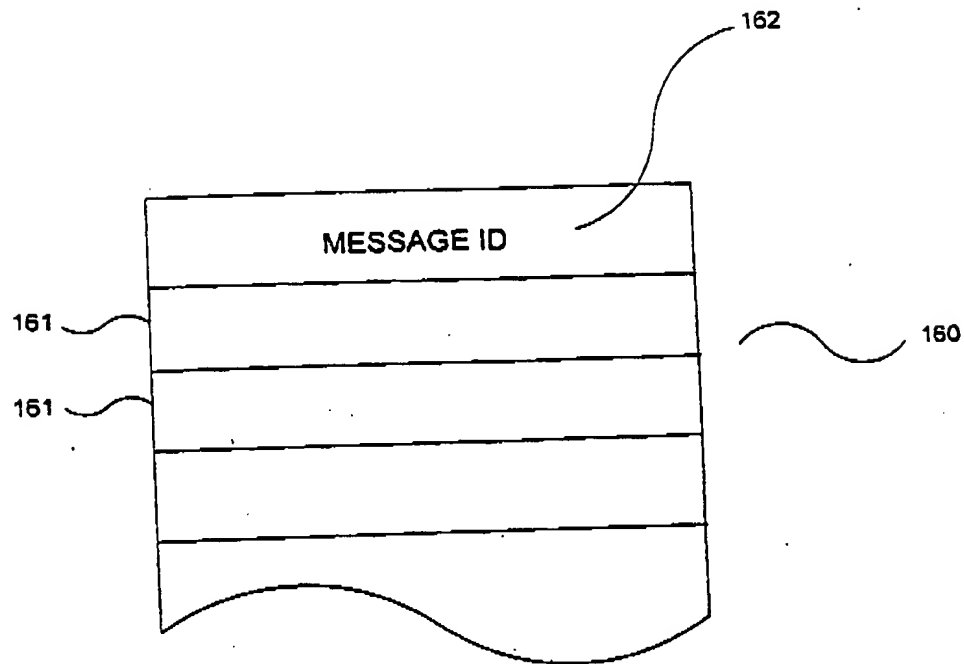


FIG. 11

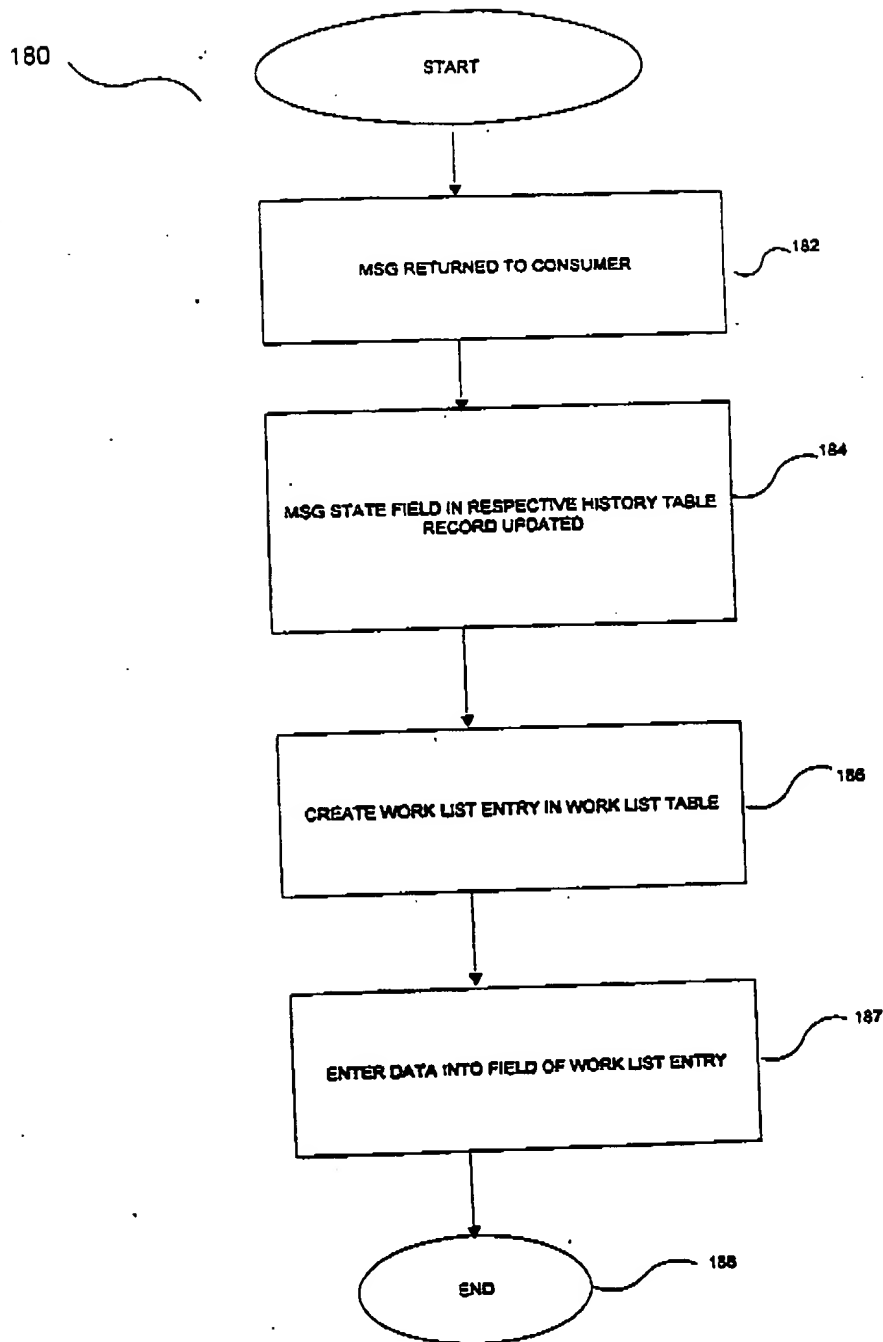


FIG. 12

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MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
201	MSG_X	206
203	MSG_Y	208

FIG. 13A-1

MESSAGE ID
204

FIG. 13A-3

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	206
MSG_X	B	ENQUEUED	208
MSG_Y	A	ENQUEUED	210
MSG_Y	B	ENQUEUED	212
MSG_Y	C	ENQUEUED	214
MSG_Y	D	ENQUEUED	216

FIG. 13A-2

MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
200	MSG_X	206
	MSG_Y	208

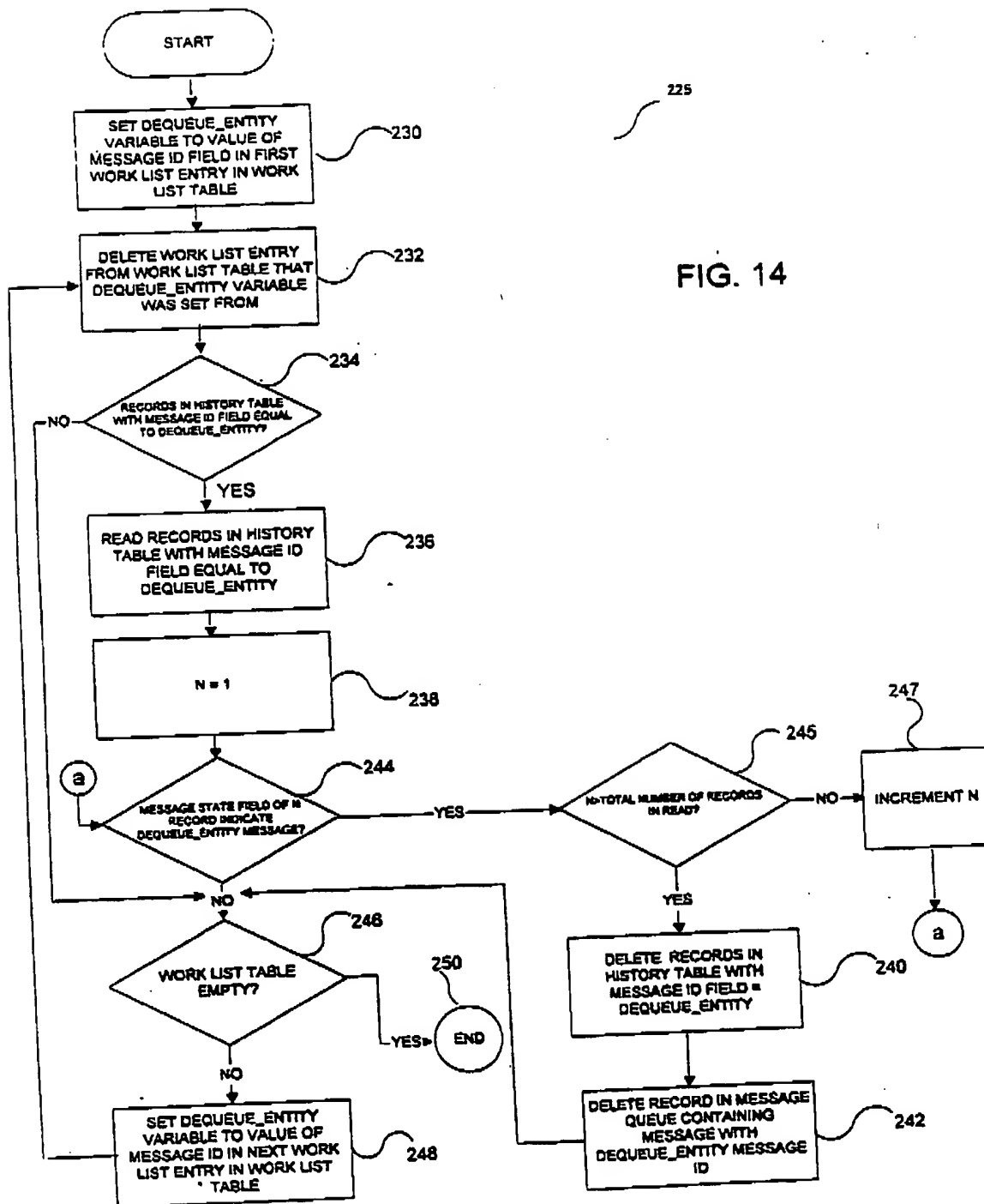
FIG. 13B-1

MESSAGE ID
212
MSG_X

FIG. 13B-3

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_X	A	ENQUEUED	211
MSG_X	B	READ	218
MSG_Y	A	ENQUEUED	
MSG_Y	B	ENQUEUED	
MSG_Y	C	ENQUEUED	
MSG_Y	D	ENQUEUED	

FIG. 13B-2



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300	MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
301 ~	~	MSG_X	~
303 ~	~	MSG_Y	~
305 ~	~	MSG_Z	~

FIG. 15A-1

320	MESSAGE ID
	MSG_Y

FIG. 15A-3

330	MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
337 ~	~	MSG_X	~
338 ~	~	MSG_Z	~

FIG. 15B-1

350	MESSAGE ID

FIG. 15B-3

330	MESSAGE	MESSAGE ID	MESSAGE PROPERTIES
337 ~	~	MSG_X	~
338 ~	~	MSG_Z	~

FIG. 15C-1

360 ~	MESSAGE ID
362 ~	MSG_X
364 ~	MSG_X
366 ~	M. _Z

FIG. 15C-3

310	MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
341 ~	MSG_X	A	ENQUEUED	~
342 ~	MSG_X	B	ENQUEUED	~
343 ~	MSG_Y	C	READ	~
344 ~	MSG_Z	A	READ	~
345 ~	MSG_Z	B	ENQUEUED	~
348 ~	MSG_Z	C	READ	~
347 ~	MSG_Z	D	ENQUEUED	~

FIG. 15A-2

340	MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
351 ~	MSG_X	A	ENQUEUED	~
352 ~	MSG_X	B	ENQUEUED	~
353 ~	MSG_Z	A	READ	~
354 ~	MSG_Z	B	ENQUEUED	~
355 ~	MSG_Z	C	READ	~
356 ~	MSG_Z	D	ENQUEUED	~

FIG. 15B-2

340	MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
334 ~	MSG_X	A	READ	~
336 ~	MSG_X	B	READ	~
361 ~	MSG_Z	A	READ	~
363 ~	MSG_Z	B	ENQUEUED	~
365 ~	MSG_Z	C	READ	~
367 ~	MSG_Z	D	READ	~

FIG. 15C-2

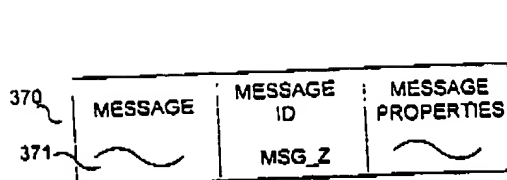


FIG. 15D-1

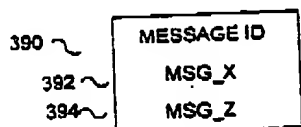


FIG. 15D-3

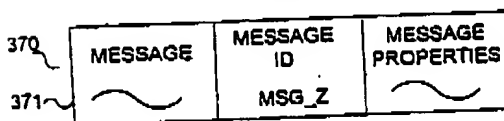


FIG. 15E-1

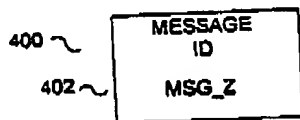


FIG. 15E-3

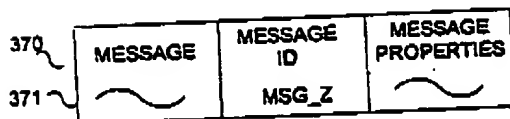


FIG. 15F-1



FIG. 15F-3

380

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
382 ~ MSG_Z	A	READ	~~~~~
384 ~ MSG_Z	B	ENQUEUED	~~~~~
386 ~ MSG_Z	C	READ	~~~~~
388 ~ MSG_Z	D	READ	~~~~~

FIG. 15D-2

380

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
382 ~ MSG_Z	A	READ	~~~~~
384 ~ MSG_Z	B	ENQUEUED	~~~~~
386 ~ MSG_Z	C	READ	~~~~~
388 ~ MSG_Z	D	READ	~~~~~

FIG. 15E-2

380

MESSAGE ID	CONSUMER ID	MESSAGE STATE	HISTORY LOG
MSG_Z	A	READ	~~~~~
MSG_Z	B	ENQUEUED	~~~~~
MSG_Z	C	READ	~~~~~
MSG_Z	D	READ	~~~~~

FIG. 15F-2



450

452	454	456
MESSAGE ID	TIME	ACTION
458		
458		
458		

FIG. 16

500

MESSAGE ID	TIME	ACTION
MSG_A	IMMEDIATELY	DELETE
MSG_B	8:00 a.m.	SHOW
MSG_X	IMMEDIATELY	EXPIRE
MSG_H	1/31/99	EXPIRE

502  
504  
506  
508

FIG. 17

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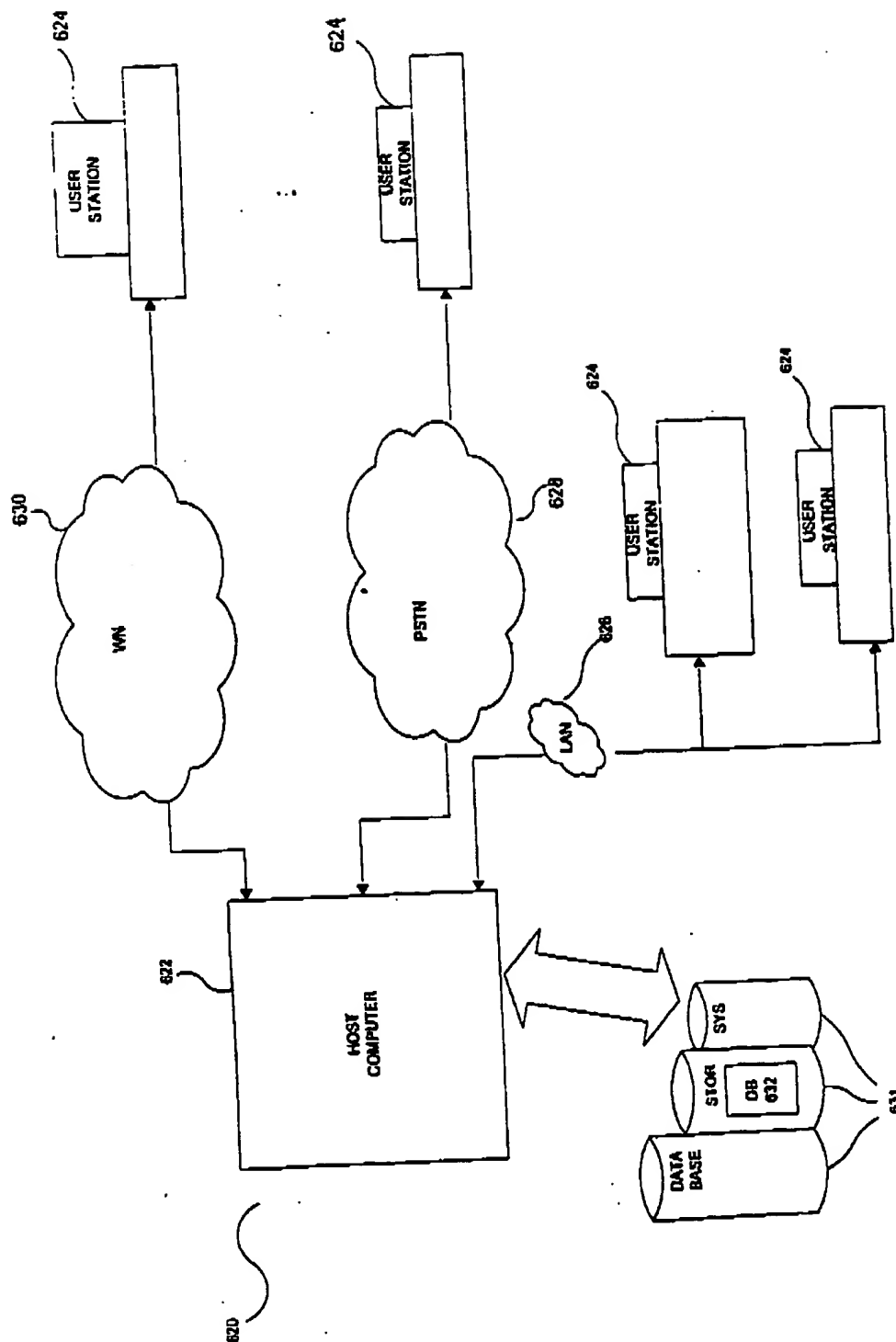


FIG. 18A

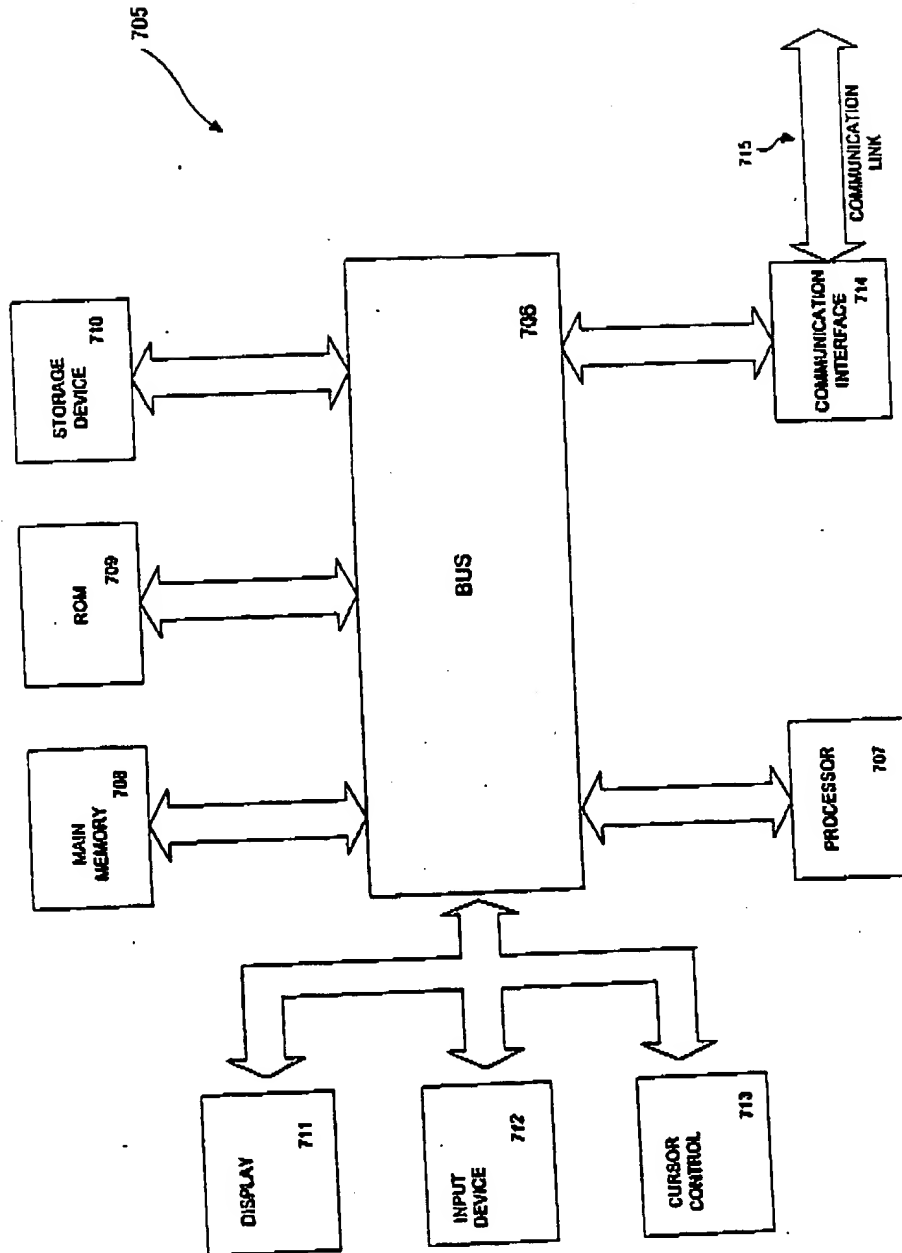


FIG. 18B

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